



Attorney Docket No.: TXT03-01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Howard C. Choe and Emel S. Bulat
Serial No.: 10/696,762
For: SYSTEMS AND METHODS FOR SENSING AN ACOUSTIC SIGNAL
USING MICROELECTROMECHANICAL SYSTEMS TECHNOLOGY
Filing Date: October 29, 2003
Examiner: Unassigned
Art Unit: 2644

Certificate of Mailing Under 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450 on:

Date: March 18, 2004

By: Farah Zafar
(Typed or printed name of person mailing
Document, whose signature appears below)

Signature: _____

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

TRANSMITTAL LETTER

Sir:

Enclosed is/are:

- [x] Transmittal Letter (this form, 2 pages, in duplicate), Total Pages: 4;
- [x] Information Disclosure Statement, Total Pages: 4;
- [x] PTO-1449 Form, Total Pages: 1;
- [x] Return Receipt Pre-paid Postcard (in duplicate), Total Postcards: 2;
- [x] Authorization to charge Deposit Account No. 50-0901, if required.

U.S. Application No.: 10/696,762

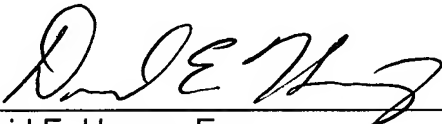
Attorney Docket No.: TXT03-01

- 2 -

Applicant hereby petitions for any extension of time which is required to maintain the pendency of this case. If there is a fee occasioned by this response, including an extension fee, that is not covered by an enclosed check, please charge any deficiency to Deposit Account No. 50-0901.

If the enclosed papers or fees are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned collect at (508) 366-9600, in Westborough, Massachusetts.

Respectfully submitted,

By: 

David E. Huang, Esq.
U.S.P.T.O. Registration No.: 39,229
Attorney for Applicant
CHAPIN & HUANG, L.L.C.
Westborough Office Park
1700 West Park Drive
Westborough, Massachusetts 01581
Telephone: (508) 366-9600
Facsimile: (508) 616-9805

Attorney Docket No.: TXT03-01

Dated: March 18, 2004



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

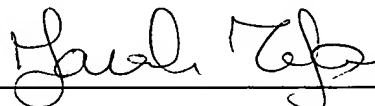
Applicant(s): Howard C. Choe and Emel S. Bulat
Serial No.: 10/696,762
For: SYSTEMS AND METHODS FOR SENSING AN ACOUSTIC
SIGNAL USING MICROELECTROMECHANICAL SYSTEMS
TECHNOLOGY
Filing Date: October 29, 2003
Examiner: Unassigned
Art Unit: 2644

Certificate of Mailing Under 37 C.F.R. §1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450 on:

Date: March 18, 2004

By: Farah Zafar
(Typed or printed name of person mailing Document, whose signature appears below)

Signature: 

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

☐ under 37 CFR 1.129(a), or (If IDS filed as first/second submission after Final Rejection);

☒ under 37 CFR 1.97(b), or (If IDS Filed within three months of filing national application; or date of entry of the national stage in international application; or before mailing date of first office action on the merits; whichever occurs last);

- 2 -

- ☐ under 37 CFR 1.97(c) together with either:
 - ☐ a Statement under 37 CFR 1.97(e), as checked below, or
 - ☐ a \$180.00 fee under 37 CFR 1.17(p), or (If filed after the 37 CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with:
 - ☐ a Statement under 37 CFR 1.97(e), as checked below, and
 - ☐ a Petition under 37 CFR 1.97(d)(2), and
 - ☐ a \$130.00 petition fee set forth in 37 CFR 1.17(i). (If IDS filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)
 - ☐ Applicant requests that the attached IDS and cited reference(s) be placed in the application filewrapper. (If IDS filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Enclosed herewith is Form PTO-1449:

- ☐ Copy of the cited references are enclosed.
- ☒ A Copy of cited references are not enclosed since they were entered in a related prior application, having U.S. Serial No. 09/881,793 filed June 15, 2001 entitled SYSTEMS AND METHODS FOR SENSING AN ACOUSTIC SIGNAL USING MICROELECTROMECHANICAL SYSTEMS TECHNOLOGY.

- 3 -

☐ The listed references were cited in the enclosed International Search Report in a counterpart foreign application.

☐ Pursuant to the Official Gazette Notice of August 5, 2003, the requirement under 37 CFR 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication is waived for all U.S. national patent applications filed after June 30, 2003.

Concise Explanation Requirement (required for non-English references):

- ☐ The "concise explanation" requirement for reference(s) under 37 CFR 1.98(a)(3) is satisfied by:
- ☐ the explanation provided on the attached sheet.
 - ☐ the explanation provided in the Specification.
 - ☐ submission of the enclosed International Search Report.
 - ☐ the enclosed English language abstract.

It is requested that the information disclosed herein be made of record in this application.

Method of payment:

- ☒ No fee is required for this Information Disclosure Statement.
- ☐ Enclosed is a check for \$180.00, which covers the Information Disclosure Fee.
- ☐ A copy of this Statement is enclosed.

- 4 -

Applicant hereby petitions for any extension of time which is required to maintain the pendency of this case. If there is a fee occasioned by this response, including an extension fee, that is not covered by an enclosed check, please charge any deficiency to Deposit Account No. 50-0901.

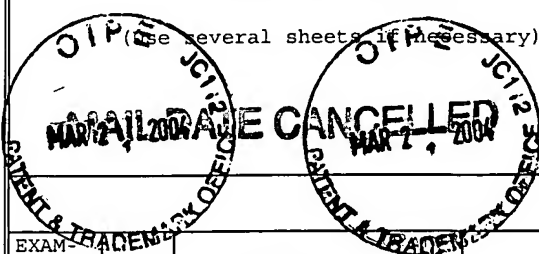
Respectfully submitted,

By: 

David E. Huang, Esq.
U.S.P.T.O. Registration No.: 39,229
Attorney for Applicant
CHAPIN & HUANG, L.L.C.
Westborough Office Park
1700 West Park Drive
Westborough, Massachusetts 01581
Telephone: (508) 366-9600
Facsimile: (508) 616-9805

Attorney Docket No.: TXT03-01

Dated: March 18, 2004

PTO-1449 REPRODUCED				ATTORNEY DOCKET NO.		APPLICATION SERIAL NO.	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (See several sheets if necessary)				TXT03-01		10/696,762	
				APPLICANT			
				Howard C. Choe and Emel S. Bulat			
FILING DATE				GROUP			
October 29, 2003				2644			
U. S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE mm/dd/yy	NAME	CLASS	SUB-CLASS	FILING DATE IF APPROPRIATE
	AA	5,659,195	08/19/97	Kaiser, et al.	257	415	06/08/95
	AB	5,658,710	08/19/97	Neukermans	430	320	02/24/95
	AC	5,883,310	03/16/99	Ho, et al.	73	766	04/25/95
	AD	6,031,273	02/29/00	Torok, et al.	257	421	12/08/98
	AE	6,128,961	10/10/00	Haronian	73	774	07/17/97
	AF	5,883,310	03/16/99	Ho, et al.	73	766	04/25/95
	AG	6,243,474	06/2001	Tai, et al.	381	174	04/18/97
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AR	Low Flow-Noise Microphone for Active Noise Control Applications; R.S. McGuinn, G. C. Lauchle, D.C. Swanson; AIAA Journal; Volume 35; Number 1; January 1997; Pages 29-34.					
	AS	Active Removal of Wind Noise From Outdoor Microphones Using Local Velocity Measurements; Michael R. Shust; A Dissertation; 1998; 134 Pages.					
	AT	Acoustical Society of America 136 th Meeting Lay Language Papers; Electronic Removal of Outdoor Microphone Wind Noise; Michael R. Shust and James C. Rogers; October 13, 1998; <a href="http://www.acoustics.org/136<sup>th</sup>/mshust.htm">http://www.acoustics.org/136th/mshust.htm ; 3/28/01; Pages 1-6.					
		International Search Report from International Application No. PCT/US 02/18969, filed June 14, 2002, 6 Pages.					
		Shust, Michael R. and Rogers, James C.: "ELECTRONIC REMOVAL OF OUTDOOR MICROPHONE WIND NOISE" Acoustical Society of America 136 th Meeting Lay Language Papers, October 1998					
		Stephen, C. H. and Zanini, M.: "A MICROMACHINED, SILICON MASS-AIR-FLOW SENSOR FOR AUTO-FLOW SENSOR FOR AUTOMOTIVE APPLICATIONS" Transducers. San Francisco, June 24-27, 1991					
		McGuinn, R. S. and Lauchle, G. C.: "LOW FLOW-NOISE MICROPHONE FOR ACTIVE NOISE CONTROL APPLICATIONS" AIAA Journal, Vol. 35, no. 1, January 1997					
		White Richard M.: "MICRO-SCALE MECHANICS FOR SENSORS AND ACTUATORS: Proceedings of the Ultrasonics Symposium. Chicago, October 2-5, 1988, New York, IEEE, US, 2 October 1988					
		GB 2 310 039 A (Roke Manor Research) 13 August 1997, Abstract; figure 3					
		Patent Abstract of Japan, Vol. 1998, No. 05, 30 April 1998 & JP 10 023590 A (Matsushita Electric Ind Co Ltd), 23 January 1998, Abstract					
		Patent Abstract of Japan, Vol. 2000, No. 22, 9 March 1998 & JP 2001 124621 A (Matsushita Electric Ind Co Ltd), 11 May 2001, Abstract					
		Patent Abstract of Japan, Vol. 005, No. 133, 25 August 1981 & JP 56 069992 A (Sony Corp), 11 June 1981, Abstract					
EXAMINER				DATE CONSIDERED			